

# Converting Colors

`RYB(63, 65, 228)`

Have a look what the booklet for  
RYB(63, 65, 228) contains.

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# Color

**R<sub>Y</sub>B(63, 65, 228)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3F41E4
RGB	63, 65, 228
RGB Percent	25%, 25%, 89%
CMY	0.7529, 0.7450, 0.1059
CMYK	0.72, 0.71, 0.00, 0.11
HSL	239°, 75%, 57%
HSV	239°, 72%, 89%
XYZ	17.9452, 10.4416, 74.4684
YIQ	82.9840, -53.5150, 50.2690

# Conversions

## Conversions Part 2

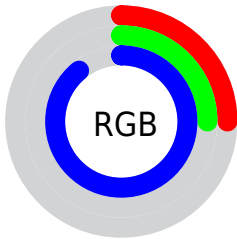
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	63, 65, 228
Decimal	4145636
CIE Lab	38.62, 51.39, -82.03
CIE LCh	39, 96.802, 302.067
Yxy	10.4416, 0.1745, 0.1015
Android (android.graphics.Color)	4282335716 (0xFF3F41E4)
YUV	82.9840, 71.4929, -17.5260
Hunter-Lab	32.3135, 42.5809, -114.0180

# Details

The RYB color **63, 65, 228** is a dark color, and the websafe version is hex **3333CC**. The color can be described as dark washed blue. A complement of this color would be **65, 228, 63**, and the grayscale version is **82, 82, 82**.

A 20% lighter version of the original color is **133, 114, 255**, and **0, 17, 171** is the 20% darker color. If you saturate the color by 10%, you get **40, 43, 228**, and if you desaturate by 10%, it is **86, 88, 228**.

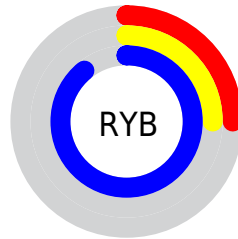
# Distribution



Red (25%)

Green (25%)

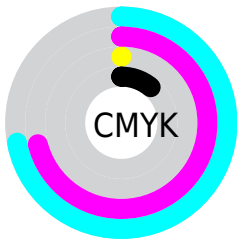
Blue (89%)



Red (25%)

Yellow (25%)

Blue (89%)

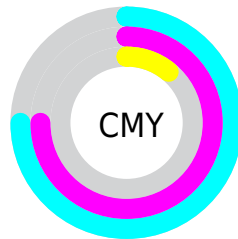


Cyan (72%)

Magenta (71%)

Yellow (0%)

Black (11%)



Cyan (75%)

Magenta (75%)



















Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the RYB color 63, 65, 228 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the RYB color 63, 65, 228 by changing the saturation by 10% instead.



 63, 65, 228	 63, 65, 228
 255, 255, 255	 0, 35, 199
 133, 114, 255	 0, 17, 171
 165, 140, 255	 0, 0, 144
 196, 167, 255	 0, 0, 117
 227, 195, 255	 0, 11, 91
 255, 223, 255	 0, 6, 67
 255, 252, 255	 0, 3, 43
	 0, 1, 22
	 0, 0, 0

■ 63, 65, 228

■ 63, 65, 228

■ 40, 43, 228

■ 86, 88, 228

■ 17, 20, 228

■ 109, 110, 228

■ 0, 3, 228

■ 131, 133, 228

■ 154, 155, 228

■ 177, 178, 228

■ 200, 200, 228

■ 223, 223, 228

■ 228, 245, 228

■ 228, 255, 228

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



0, 73, 253



63, 65, 228



182, 0, 166

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



63, 65, 228



167, 73, 0



0, 65, 118

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



63, 65, 228



65, 228, 63

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



0, 115, 115



63, 65, 228



19, 107, 0

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



63, 65, 228



207, 0, 12



0, 108, 108



0, 71, 174

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



63, 65, 228



211, 0, 115



0, 108, 108



0, 74, 117



# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



63, 65, 228



199, 200, 255



63, 146, 228



94, 95, 128



0, 0, 0



128, 128, 128



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



63, 65, 228



33, 36, 255



143, 63, 228



103, 103, 115



0, 2, 179



0, 1, 51



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



228, 63, 65



255, 33, 36



63, 228, 143



115, 103, 103



179, 0, 2

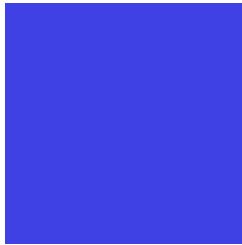


51, 0, 1



# Previews

## White Background



This preview shows how the RYB color 63, 65, 228 looks on a white background.

## Color Contrast Check

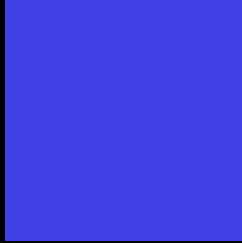
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the RYB color 63, 65, 228 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

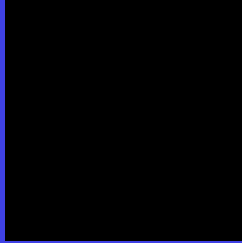
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).



## R Y B 63, 65, 228 Background



This preview shows how black text looks on a background with the R Y B color 63, 65, 228.

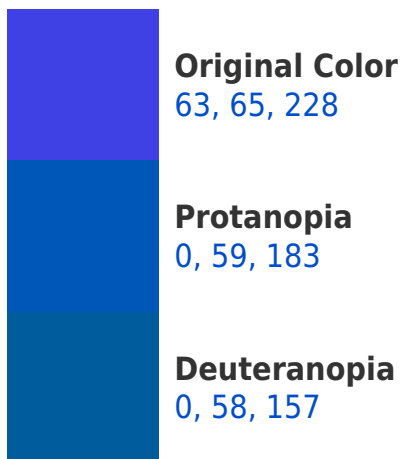


This preview shows how white text looks on a background with the R Y B color 63, 65, 228.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy





**Tritanopia**  
0, 52, 107

# Trichromacy



**Original Color**  
63, 65, 228

**Protanomaly**  
23, 65, 199

**Deuteranomaly**  
23, 67, 183

**Tritanomaly**  
23, 66, 151

# Monochromacy



**Original Color**  
63, 65, 228

**Achromatopsia**  
83, 83, 83

**Achromatomaly**  
76, 76, 136

# CSS Examples

## Text

The CSS property to change the color of the text to RYB 63, 65, 228 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(63, 65, 228)` looks like.

```
.text, #text, p{  
    color:rgb(63, 65, 228)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(63, 65, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 65, 228) }
```

## Border

The CSS property to change the border of an element to RYB 63, 65, 228 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(63, 65, 228) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(63, 65, 228) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(63, 65, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 65, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 65, 228);  
box-shadow:4px 4px 4px 4px rgb(63, 65,  
228) }
```

# Background

The CSS property to change the background color of an element to RGB 63, 65, 228 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 65, 228) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(63, 65,  
228) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).



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